Performance Data Sheet

RGA5485BXC

General Information

Model	RGA5485BXC	**Refrigerant**	R-410A
Test Condition	ASHRAE	**Performance Test Voltage**	220V ~ 50HZ
Return Gas	-6.7°C (20°F) SUPERHEAT	**Motor Type**	PSC

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	2790	2440					
	Watts	374	402					
	Amps	1.79	1.95					
	Lb/h	30.9	28.2					
-10	Btu/h	3100	2760	2470				
	Watts	385	415	442				
	Amps	1.82	1.99	2.11				
	Lb/h	35.0	32.4	30.7				
-5	Btu/h	3450	3100	2810	2550			
	Watts	394	428	458	487			
	Amps	1.84	2.03	2.16	2.26			
	Lb/h	39.3	36.7	35.1	33.9			
0	Btu/h	3840	3480	3180	2900	2620		
	Watts	401	438	472	505	538		
	Amps	1.87	2.07	2.22	2.34	2.44		
	Lb/h	44.0	41.4	39.8	38.6	37.6		
5	Btu/h	4270	3890	3570	3280	2970		
	Watts	407	447	485	521	558		
	Amps	1.89	2.11	2.28	2.41	2.54		
	Lb/h	49.1	46.6	44.9	43.7	42.5		
10	Btu/h	4750	4350	4000	3680	3350	2980	2560
	Watts	411	455	495	535	576	621	672
	Amps	1.91	2.14	2.33	2.48	2.63	2.80	3.01
	Lb/h	54.7	52.2	50.5	49.2	47.9	46.3	43.9
15	Btu/h	5280	4850	4470	4110	3750	3350	2890
	Watts	413	460	504	548	593	642	696
	Amps	1.92	2.17	2.37	2.55	2.72	2.91	3.15
	Lb/h	61.0	58.4	56.6	55.3	53.9	52.1	49.4
20	Btu/h	5860	5390	4980	4580	4180	3740	3230
	Watts	412	463	511	558	607	660	719
	Amps	1.92	2.19	2.41	2.60	2.80	3.01	3.28
	Lb/h	68.0	65.4	63.5	61.9	60.4	58.4	55.6

25	Btu/h	6500	5990	5530	5090	4640	4150	3600
	Watts	409	463	515	566	619	676	739
	Amps	1.91	2.20	2.44	2.65	2.86	3.10	3.40
	Lb/h	75.9	73.1	71.1	69.4	67.6	65.4	62.3
30	Btu/h	7210	6650	6140	5640	5140	4600	3990
	Watts	403	461	516	571	628	690	757
	Amps	1.89	2.19	2.45	2.68	2.92	3.18	3.50
	Lb/h	84.6	81.7	79.5	77.6	75.7	73.2	69.8
35	Btu/h	7980	7360	6790	6240	5680	5080	4410
	Watts	394	455	514	574	635	700	773
	Amps	1.86	2.17	2.45	2.70	2.96	3.25	3.59
	Lb/h	94.4	91.3	88.9	86.8	84.6	81.8	78.2
40	Btu/h	8820	8140	7510	6900	6270	5600	4860
	Watts	382	447	510	573	639	709	785
	Amps	1.80	2.14	2.43	2.70	2.98	3.30	3.67
	Lb/h	105	102	99.4	97.0	94.5	91.5	87.5
45	Btu/h	9740	8990	8290	7600	6900	6160	5350
	Watts	367	435	502	570	639	714	795
	Amps	1.73	2.08	2.39	2.69	2.99	3.33	3.73
	Lb/h	117	114	111	108	106	102	97.8
50	Btu/h	10700	9910	9130	8370	7590	6770	5870
	Watts	348	420	491	563	637	715	801
	Amps	1.64	2.00	2.33	2.65	2.97	3.34	3.76
	Lb/h	131	127	124	121	118	114	109
55	Btu/h	11800	10900	10000	9200	8340	7430	6440
	Watts	325	402	477	552	630	714	804
	Amps	1.52	1.90	2.25	2.58	2.93	3.32	3.77
	Lb/h	146	142	138	135	131	127	122

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.227489E+04	-2.832296E+02	-4.925427E+00	1.436084E+02
C2	9.563905E+01	-2.693129E+00	-4.950262E-03	7.371014E-01
C3	-2.027893E+02	1.549803E+01	1.719584E-01	-2.607583E+00
C4	1.882835E+00	-4.437504E-02	-6.061438E-05	1.358763E-02
C5	-7.913515E-02	3.727874E-02	-4.407048E-05	5.195330E-03
C6	1.611871E+00	-1.161388E-01	-1.422084E-03	2.234840E-02
C7	5.356028E-03	-2.636276E-04	-2.863333E-06	1.273700E-04
C8	-1.286630E-02	1.159840E-04	2.040860E-07	-5.914102E-05
C9	-1.179944E-03	1.644658E-04	2.073699E-06	-2.777262E-05
C10	-4.937875E-03	3.669853E-04	4.171501E-06	-6.652781E-05

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature